



Since 1936

# SHALLOW PLOUGH

Maximum Profitability





# MINI

## A BIG FAMILY

Ovlac's **Mini** shallow plough has been conceived to combine the advantages of traditional and minimum tillage; in other words, it gathers both output and efficiency for the sake of profitability.

Traditional ploughing is, without any doubt, the most ecological and sustainable method of plague and disease control. In organic farming, ploughing is almost the only possible soil management system, as chemical products are forbidden.

The **Mini** shallow plough is an **Ovlac** innovative development, offering unequal performance. It has specifically been designed as a shallow plough able to cope with large amounts of stubble at limited depths (8-20 cm). This superficial turning over of the soil favours the formation of cavities where air and water adequately decompose and transform stubble, creating humus which increases soil natural fertility and, in turn, long-term productivity. Furthermore, plough-shares break soil capilarity, thus contributing to lessen evaporation and keep moisture in the deep layers, especially in dry periods.

Another advantage of the **Mini** shallow plough is that it works on-land, thus totally preventing soil compaction on the furrow bottom. Also, the superficial work of the **Mini** implies a more than proportionate decrease in the tractor power consumption. Ploughing 15 cm deep

requires less than half the power needed to plough 30 cm. This means that the same tractor will be able to plough up to 40% wider with a **Mini** as compared to a traditional plough. All things considered, the **Mini** combines traditional ploughing with working widths characteristic of minimum till techniques.

Finally, we must add to this cutting down of operational costs the **Mini**'s own conception: simple and light, but (or because of it) robust. All are advantages.

### QUALITY MANUFACTURING

The **Mini** undergoes a manufacturing process with plenty of controls, starting with the use of top quality raw materials and the most modern and accurate production means in order to get a perfect finish. All critical parts are made in HEL (High Elastic Limit) steel. And frame, headstock and beams are totally welded by robots. The final output: a solid and reliable **Mini**.

As regards wearing parts, all of them are equal to none: both reversible points and shares are drop-forged for maximum strength and endurance; mouldboards are 8 mm thick borochrome steel. All pieces are hardened and tempered in order to attain the best possible compromise between tenacity and wearability.

Present in Europe with great success



**ovlac genuine**

The quality of the original. Forged shares, 8mm mouldboards,... and always the leader's backup. Do not feel tempted by imitations.





# CONVENTIONAL MINI

Mini BF / HF



Mini HF

In Europe there are still vast regions where ploughing takes place with conventional ploughs, and not reversible. This refers mainly to Southern Europe as well to some areas in Central Europe. For this purpose Ovlac has the **Mini BF** and **Mini HF**. The former features leafspring auto-reset security system; the latter, hydraulic, with break away force regulation depending on soil conditions. Both security systems are 100% maintenance-free in order to reduce downtime to a minimum.



Mini HF body



Mini BF



Mini BF body

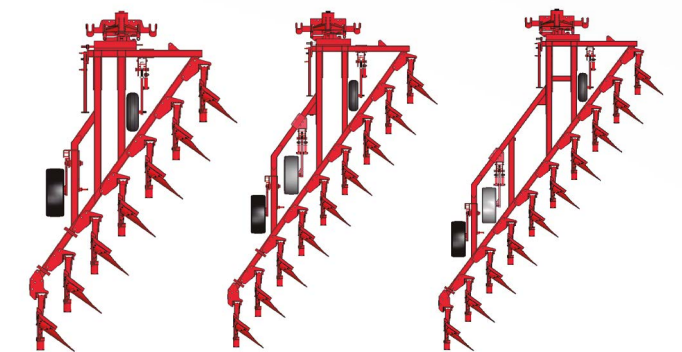


Optional hydraulic folding of rear bodies in order to reduce weight during transport or, when necessary, to work with fewer bodies

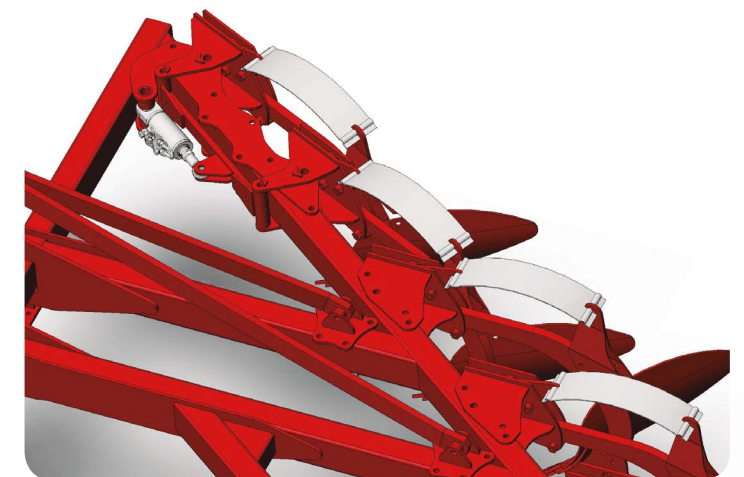


Mini HF 7+2

Just like the reversible **Mini** range, the conventional one covers three frame sizes: 5, 7 and 9 bodies. Each of these frames can be extended with the addition of one or two extra bodies, which can just be bolted-on to the main frame, or hydraulically foldable, so as to reduce the total plough length and weight while road transport.



Plan view of Mini-5, Mini-7 and Mini-9 ploughs. In shaded colour, position of optional bolted-on rear wheel in contrast with the standard rear wheel



Optional hydraulic folding of front bodies in order to get a maximum transport width within 3 m





# REVERSIBLE MINI

Mini NF / NH

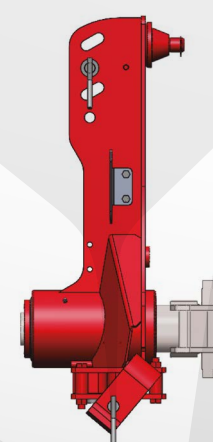


Headstock and frame support

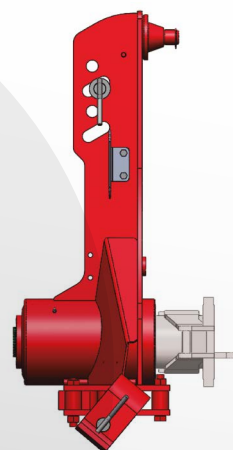
In terms of farm machinery, experience is certainly an asset. With over 15 years of experience, we can openly state that Ovlac's Mini is a reference in vast areas in Europe.

Ever since the first machines were produced back in 2003, successive improvements and innovations have been steadily implemented thanks to the feedback from farmers from more than 15 countries as well as to gathered experience. At Ovlac we listen to our customers who, as professionals, can revert with interesting remarks in order to further optimize our machines.

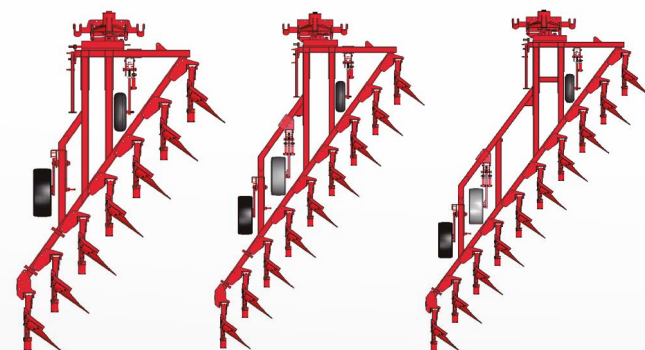
Nowadays, the Mini is a shallow plough with an undisputable reputation as regards both reliability and efficiency. Proven.



Mini-N-5



Mini-N-7/9



The 5-furrow frame is equipped with a 120 series headstock, with a 110mm diameter shaft. 7 and 9-furrow frames come with an oversized 150 series headstock, with a 140 mm diameter shaft



Mini NF body



Mini NH body

The last version of the reversible **Mini**, the **Mini-N**, is available with shear bolt security for not too stony soils (**Mini NF**) or with hydraulic auto-reset system (**Mini NH**), with adjustable breakaway force depending on soil conditions. Thus, in hard or compacted soil, pressure can be increased in order to make the plough penetrate easier as well as to keep the working position of the bodies. On the contrary, under stony conditions we will decrease pressure so as not to bring out stones up to the surface. This possibility to adjust the working pressure provides great flexibility when adapting the Mini to different soil types.

The **Mini-N** range is based on 3 main frames, Mini-N-5, Mini-N-7 and Mini-N-9, which can be extended with one or two additional bolt-on bodies each.

The 5-furrow frame is equipped with a 120 series headstock, with a 110 mm diameter shaft. 7 and 9-furrow frames come with an oversized 150 series headstock, with a solid 140 mm diameter shaft.



MINI NF 7+1 HOLLAND



Transport position



# REVERSIBLE MINI (CONTINUED)

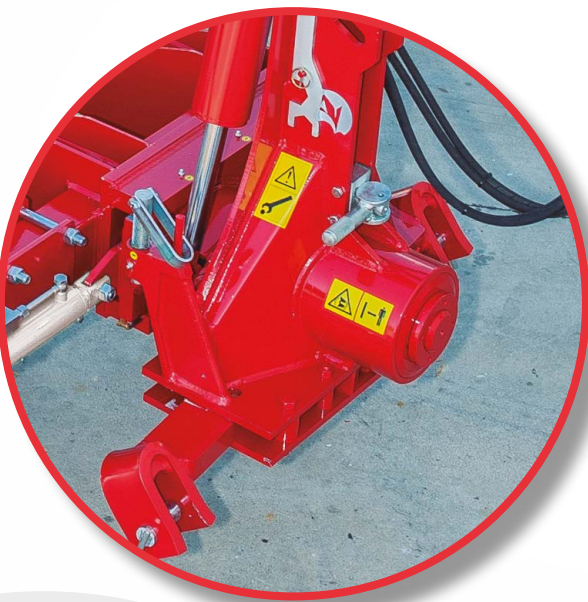
Mini NF / NH

## QUALITY MANUFACTURING

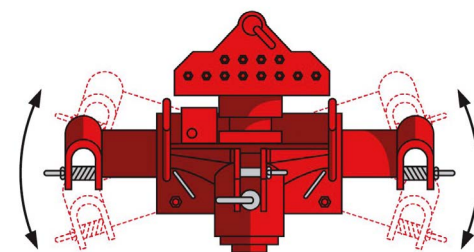
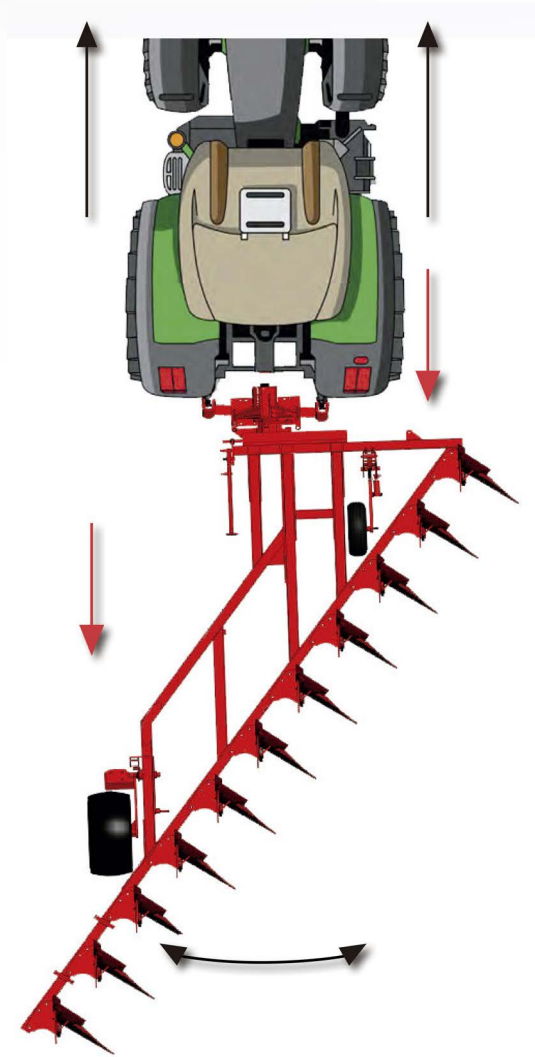
The **Mini-N** comes as standard with our oscillating drawbar for automatic self-alignment.

The oscillating hitch makes it possible for the plough to move freely around a central pivoting point in the cross shaft and to find by itself the perfect balance between the side pressure exerted on the mouldboards and the landsides. Correction varies a maximum of  $+10^\circ$  to  $-10^\circ$ .

Therefore, it is no longer necessary to adopt complicated adjustments in order to regulate the draw line so as to make the plough work perfectly aligned. Alignment is automatically achieved with no need of intervention from the operator.



Oscillating cross shaft



Correction from  $+10^\circ$  to  $-10^\circ$

What makes us unique



## HYDRAULIC ADJUSTMENT OF FIRST FURROW WIDTH:

The first furrow width adjustment of the **Mini-N**, be it mechanical or hydraulic, makes it possible to set the first furrow at the desired spot depending on the tractor width. Once set, this width can be easily varied any time in order to get closer or further away from the furrow if the working conditions, like hills for instance, make it necessary.

The mechanical adjustment can be made using the spanner being furnished with each machine whereas the hydraulic system is adjusted by means of a double-effect hydraulic cylinder.

The sliding plates are made in 500 HEL steel to guarantee many hectares of trouble-free work even with the most demanding use.



## AUTO REST PROTECTION FOR THE MOST EXTREME CONDITIONS:

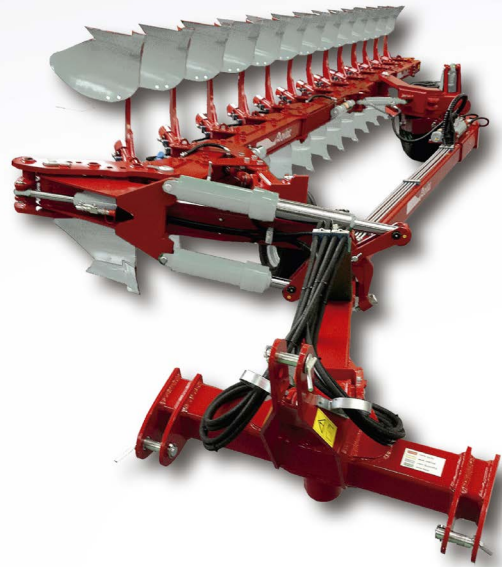
The security rod joining the plough body to the frame is articulated and heat treated in order to withstand the most demanding conditions. It offers a real 3D security.





# SEMIMOUNED MINI

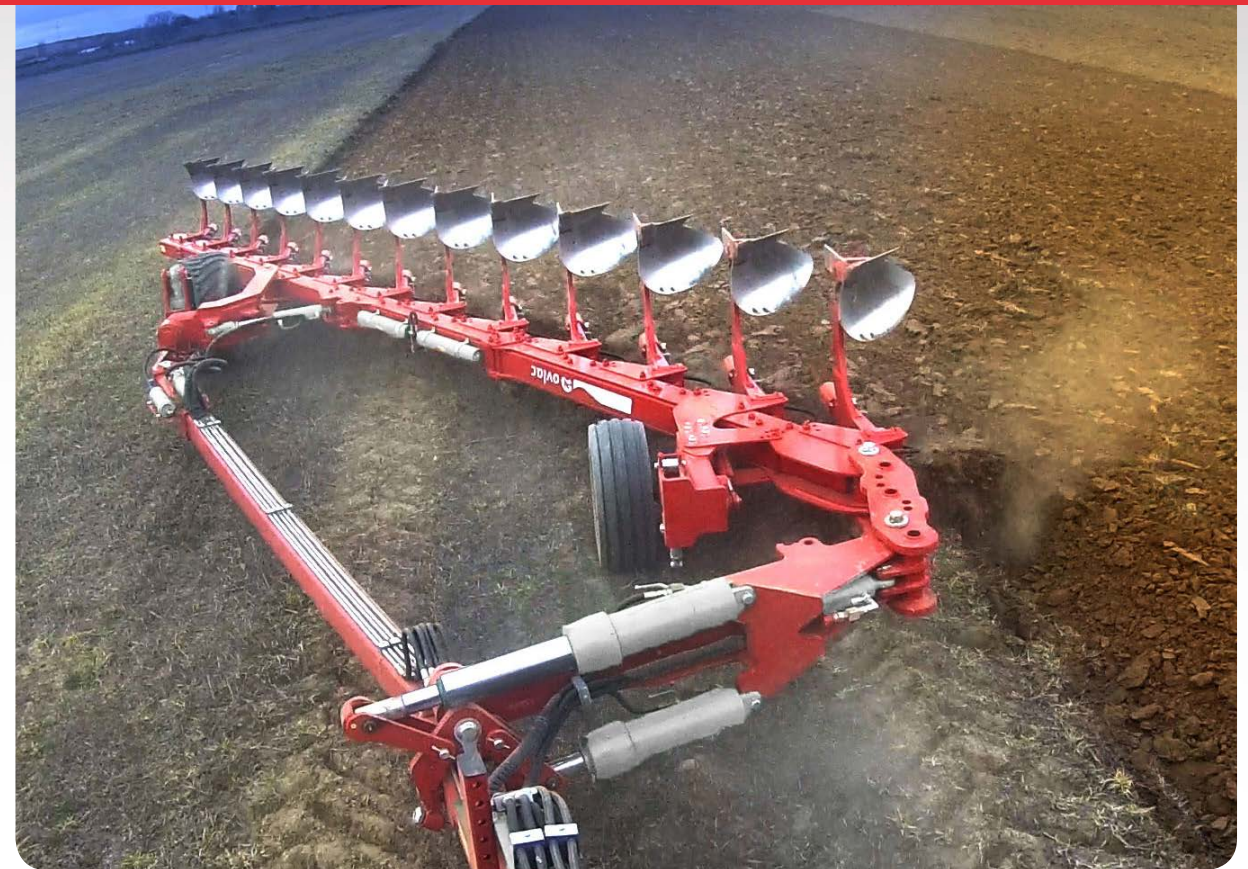
## Mini S



The semimounted **Mini** has been specifically developed for big states and high-power tractors. Available up to 13 furrows, the Mini S grants a working width of no less than 5 m. In other words, 3 ha/h can be ploughed at ease, which says a lot about its performance.

The **Mini S** is based upon the same frame base being used for our traditional on-land semimounted ploughs.

In order to ease the turnover of the plough at the headland, the **Mini S** features an articulation at the front which folds in the front bodies thus reducing the turnover radius and minimizing the effort on the tractor arms and headstock.



Exactly like in the mounted range, the **Mini S** is available either with shear bolt stone protection or with hydraulic auto reset system with adjustable breakaway force depending on the working conditions.

Unrivalled performance:  
more than 3 ha/h



In transport





# MINI

## Options



1st furrow hydraulic width adjustment  
(extra wide version available for 9-furrow range)



Slatted mouldboards for sticky conditions-  
Trashboards to improve burial of trash



Additional bolted bodies



Hydraulically foldable rear bodies  
(for Mini BF and HF)



In-the-furrow version  
(only for Mini-N-5 and 5+1)



Landside extension, for better  
plough stability



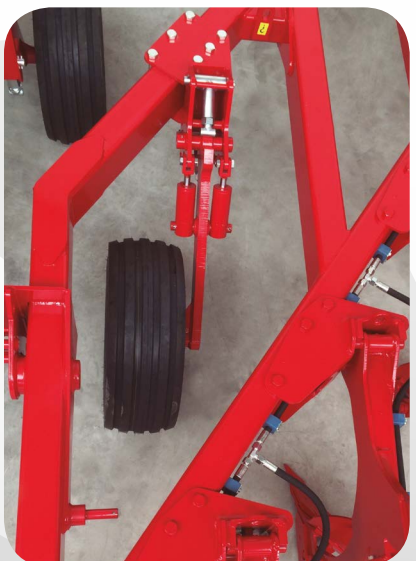
Rear depth control wheel. Available as  
6.00"9", 200/60 14,5", 250/65 14,5", 340/55  
16" and 380/55 17"



Transport wheel available as 200/60 14,5",  
250/65 14,5", 340/55 16" and 380/55 17"



Front depth control wheel available as 6.00"9",  
200/60 14,5" and 250/65 14,5"  
(depending on models)



Inner depth control wheel  
(available for Mini-N 7 and 9 frames)



Lights kit



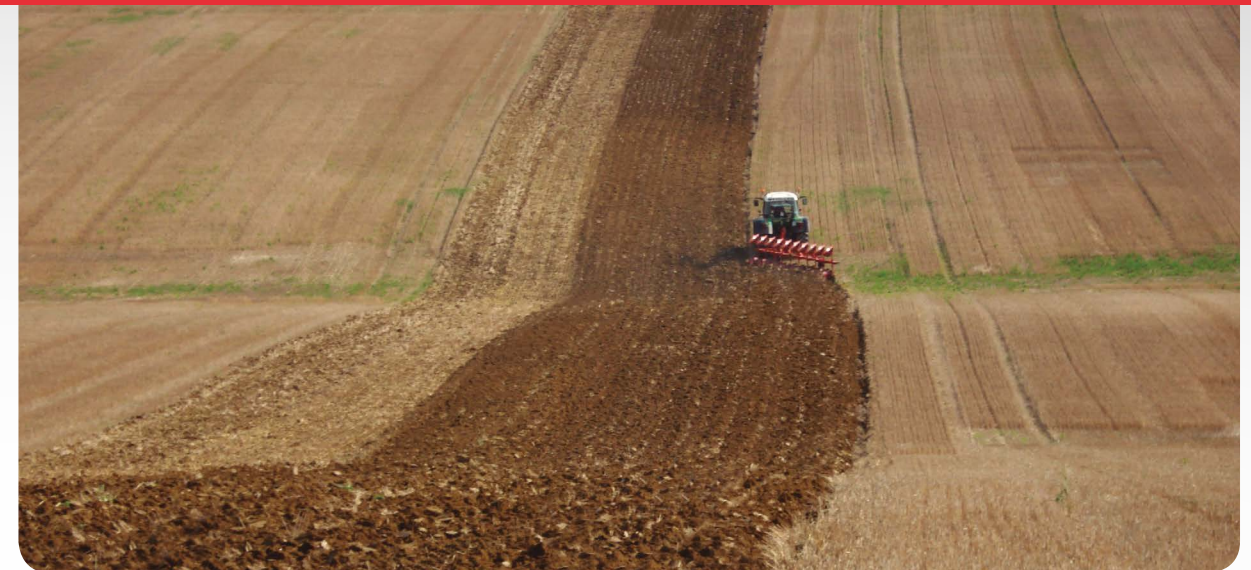
Headstock lock for transport



Extra large forged share. 12 more cm  
longer than standard share



"Pan- Cracker"



## WHEEL GRID

MINI-BF/MINI-HF	5 / 5+1 / 5+2		7 / 7+1 / 7+2		9 / 9+1 / 9+2	
Wheel type	Front wheel	Rear wheel	Front wheel	Rear wheel	Front wheel	Rear wheel
6.00 X 9" 10 PR	X	X	X	X	X	X
200/60 14.5" 10 PR	X	X	X	X	X	X
250/65 14.5" 12 PR	-	X	-	X	-	X
340/55 16" 14 PR	-	X	-	X	-	X
380/55 17" 14 PR	-	X	-	X	-	X



6.00 x 9" 10PR



200/60 14.5" 10PR



250/65 14.5" 12PR



340/55 16" 14PR



380/55 17" 14PR

MINI-N	5 / 5+1 / 5+2		7 / 7+1 / 7+2		9 / 9+1 / 9+2	
Wheel type	Front wheel	Rear wheel*	Front wheel	Rear wheel*	Front wheel	Rear wheel*
6.00 X 9" 10 PR	X	X	X	X	X	X
200/60 14.5" 10 PR	-	X	X	X	X	X
250/65 14.5" 12 PR	-	X	-	X	X	X
340/55 16" 14 PR	-	X	-	X	-	X
380/55 17" 14 PR	-	X	-	X	-	X

\*Available as depth control wheel or combi wheel for depth control and transport

MINI-S	12 / 12+1	
Wheel type	Front wheel	Rear wheel*
250/65 14.5" 12PR	X	-
340/55 16" 14 PR	-	-
380/55 17" 14PR	-	-
500/50 17" 18 PR	-	X



550/50 17" 18PR



# MINI

## In short

### 3 MODELS



One-way mounted shallow plough.  
From 5 up to 11 furrows  
**Mini-BF/HF**



Reversible mounted shallow plough.  
From 5 up to 11 furrows  
**Mini-NF/NH**



Reversible semimounted shallow plough. 12 or 3 furrows  
**Mini-SF/SH**

### 3 SECURITY SYSTEMS



Shear bolt stone protection.  
Mini-NF and Mini-SF



Leafspring protection. Mini-BF



Hydraulic release system.  
Mini-HF, Mini-NH and Mini-SH

### 3 GOOD REASONS



Up to 40% less running cost per hectare as compared to a traditional plough (average percentage recorded by end-users in several countries).



Mechanical Weed and disease control with no need of chemicals.



Perfect soil finish with both the advantages of turning and the quality of minimum tillage.



# MINI

## Technical Features

MODEL	Working width (cm)	Power (HP)	Point to point (cm)	Underbeam clearance (cm)	Working width per furrow	Weight (kg) BF/HF	
Mini 5	192	85-105				900	
Mini 5+1	231	100-120	66	70	14" / 15"	980	
Mini 5+2	269	120-140				1.075	
Mini 7	269	120-140				1.216	
Mini 7+1	308	135-160	66	70	14" / 15"	1.350	
Mini 7+2	346	150-180				1.432	
Mini 9	346	150-180				1.600	
Mini 9+1	385	170-200	66	70	14" / 15"	1.734	
Mini 9+2	421	190-220				1.816	

MODEL	Working width (cm)	Power (HP)	Point to point (cm)	Underbeam clearance (cm)	Working width per furrow	Weight (kg) NF	Weight (kg) NH
Mini N 5	192	85-105				1.110	1.270
Mini N 5+1	230	100-120	66	70	14" / 15"	1.240	1.440
Mini N 5+2	268	120-140				1.370	1.610
Mini N 7	268	120-140				1.499	1.730
Mini N 7+1	306	135-160	66	70	14" / 15"	1.636	1.900
Mini N 7+2	345	150-180				1.773	2.070
Mini N 9	345	150-180				1.833	2.130
Mini N 9+1	383	170-200	66	70	14" / 15"	1.985	2.315
Mini N 9+2	422	190-220				2.125	-

MODEL	Working width (cm)	Power (HP)	Point to point (cm)	Underbeam clearance (cm)	Working width per furrow	Weight (kg) SF	Weight (kg) SH
Mini NS 12	460	200-250	66	70	14" / 15"	4.286	4.680
Mini NS 12+1	498	220-290				4.436	4.865





## A SOLUTION FOR ANY FIELD



Ploughs



Trailed Ploughs



Minichisel



Versatill



Maxidisc



Eurodisc



Minichisel Vineyard



Reptill



Polígono Industrial, P-163 / 165 - 34200 - Venta de Baños  
 Palencia / Spain - **Tel.: +34 979 76 10 11** - Fax: +34 979 76 10 22  
 comercial@ovlac.com - **www.ovlac.com**